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14202 U.S. PTO  
08/28/03

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.	1875.4300000
First Inventor	Donald G. McMullin
Title	Apparatus and Method for Local Oscillator Calibration in Mixer Circuits
Express Mail Label No.	

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

- |  |   |
|--|---|
| <p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br/><i>(Submit an original, and a duplicate for fee processing)</i></p> <p>2. <input type="checkbox"/> Applicant claims small entity status.<br/>See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages <u>21</u>]<br/><i>(preferred arrangement set forth below)</i><br/>           - Descriptive title of the Invention<br/>           - Cross Reference to Related Applications<br/>           - Statement Regarding Fed sponsored R &amp; D<br/>           - Reference to sequence listing, a table, or a computer program listing appendix<br/>           - Background of the Invention<br/>           - Brief Summary of the Invention<br/>           - Brief Description of the Drawings (<i>if filed</i>)<br/>           - Detailed Description<br/>           - Claim(s)<br/>           - Abstract of the Disclosure</p> <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>8</u>]</p> <p>5. Oath or Declaration [Total Pages <u>6</u>]<br/>           a. <input checked="" type="checkbox"/> Newly executed (original or copy)<br/>           b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))<br/><i>(for continuation/divisional with Box 18 completed)</i><br/>           i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).</p> <p>6. <input checked="" type="checkbox"/> Application Data Sheet. See 37 CFR 1.76.</p> | <p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program<br/><i>(Appendix)</i></p> <p>8. Nucleotide and/or Amino Acid Sequence Submission<br/><i>(if applicable, all necessary)</i></p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. Specification Sequence Listing on:</p> <p>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</p> <p>ii. <input type="checkbox"/> paper</p> <p>c. <input type="checkbox"/> Statements verifying identity of above copies</p> |
|--|---|

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement  Power of Attorney  
*(when there is an assignee)*
11.  English Translation Document *(if applicable)*
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*
15.  Certified Copy of Priority Document(s)  
*(if foreign priority is claimed)*
16.  Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17.  Other: Authorization under 37 C.F.R. § 1.136(a)(3)
- Other: The name of the assignee is: Broadcom Corporation

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation     Divisional     Continuation-in-Part (CIP)    of prior application No: \_\_\_\_\_ / \_\_\_\_\_  
*Prior application information:* Examiner \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS** Customer Number 26111or  Correspondence address below

NAME		STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. Attorneys at Law			
ADDRESS		1100 New York Avenue, N.W.			
CITY	Washington	STATE	D.C.	ZIP CODE	20005-3934
COUNTRY	U.S.A.	TELEPHONE	(202) 371-2600	FAX	(202) 371-2540

NAME (Print/Type)	Jeffrey T. Helvey	Registration No. (Attorney/Agent)	44,757
SIGNATURE	<i>Jeff Helvey</i>		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

#171766v1&lt;SKGF\_DCI&gt;-Application Transmittal Form (1875.4300000).wpd

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# FEE TRANSMITTAL

## for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT (\$)** **1,162.00****METHOD OF PAYMENT (check all that apply)**

Check  Credit card  Money Order  Other\*\*  None  
 \*\* Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.

Deposit Account  
 Deposit Account Number 19-0036

Deposit Account Name: Sterne, Kessler, Goldstein &amp; Fox P.L.L.C.

**The Commissioner is authorized to: (check all that apply)**

- Charge fee(s) indicated below  Credit any over payments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	750	2001	375	Utility filing fee	\$750.00
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1105	160	2005	80	Provisional filing fee	

**SUBTOTAL (1) (\$)** **750.00****2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Extra	Fee from below	Fee Paid
Total Claims	36 - 20** = 16 X \$18.00	= \$288.00
Indep. Claims	4- 3** = 1 X \$84.00	= \$84.00
Multiple Dependent		\$280.00 = \$0.00

**Large Entity Small Entity**

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2) (\$)** **372.00**

\*\*or number previously paid, if greater; For Reissue, see above

Complete if Known	
Application Number	(to be assigned)
Filing Date	Herewith
First Named Inventor	Donald G. McMullin
Examiner Name	(to be assigned)
Art Unit	(to be assigned)
Attorney Docket No.	1875.4300000

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1502	50	2052	25	Surcharge-late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	\$40.00
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\* Reduced by Basic Filing Fee Paid

**SUBTOTAL (3) (\$)** **40.00****SUBMITTED BY**

Complete (if applicable)

Name (Print/Type)	Jeffrey T. Helvey Attorney for Applicants	Registration No. (Attorney/Agent)	44,757	Telephone	202-371-2600
Signature	J/T Helvey			Date	8/28/03

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



ATTORNEYS AT LAW

Robert Greene Sterne  
Edward J. Kessler  
Jorge A. Goldstein  
David K.S. Cornwell  
Robert W. Esmond  
Tracy-Gene G. Durkin  
Michele A. Cimbala  
Michael B. Ray  
Robert E. Sokohl  
Eric K. Steffe  
Michael Q. Lee  
Steven R. Ludwig  
John M. Covert  
Linda E. Alcorn  
Robert C. Millonig  
Lawrence B. Bugaisky  
Donald J. Featherstone  
Michael V. Messinger

Judith U. Kim  
Timothy J. Shea, Jr.  
Patrick E. Garrett  
Jeffrey T. Helvey\*  
Heidi L. Kraus  
Crystal D. Sayles  
Edward W. Yee  
Albert L. Ferro\*  
Donald R. Banowitz  
Peter A. Jackman  
Molly A. McCall  
Teresa U. Medler  
Jeffrey S. Weaver  
Kendrick P. Patterson  
Vincent L. Capuano  
Albert J. Fasulo II\*  
Eldora Ellison Floyd  
Thomas C. Fiala

Brian J. Del Buono  
Virgil Lee Beaston\*  
Kimberly N. Reddick  
Theodore A. Wood  
Elizabeth J. Haanes  
Bruce E. Chalker  
Joseph S. Ostroff  
Frank R. Cottingham  
Christine M. Lhuillier  
Rae Lynn Prengaman  
Jane Shershenovich\*  
Lawrence J. Carroll\*  
George S. Bardmesser  
Daniel A. Klein\*  
Rodney G. Maze  
Jason D. Eisenberg  
Michael A. Specht\*  
Andrea J. Kamage

**Registered Patent Agents\***  
Karen R. Markowicz  
Nancy J. Leith  
Ann E. Summerfield  
Helene C. Carlson  
Gaby L. Longsworth  
Matthew J. Dowd  
Aaron L. Schwartz  
Angelique G. Uy  
Boris A. Matvenko  
Mary B. Tung  
Katrina Y. Pei  
Bryan L. Skelton  
Robert A. Schwartzman  
John J. Figueira  
Timothy A. Doyle  
Jennifer R. Mahalingappa  
Jeff Lungren

Teresa Coiella  
Jon Wright  
Victoria Rutherford  
W. Brian Edge  
**Senior Counsel**  
Samuel L. Fox  
Kenneth C. Bass III  
Lisa A. Dunner

\*Admitted only in Maryland  
^Admitted only in Virginia  
•Admitted only in Texas  
•Practice Limited to Federal Agencies

August 28, 2003

**WRITER'S DIRECT NUMBER:**  
(202) 772-8675

**INTERNET ADDRESS:**  
JHELVEY@SKGF.COM

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**Mail Stop Patent Application**

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)  
Appl. No. (to be assigned); Filed: Herewith  
For: **Apparatus and Method for Local Oscillator Calibration in Mixer Circuits**  
Inventors: Donald G. McMullin *et al.*  
Our Ref: 1875.4300000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17);
2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
3. U.S. Utility Patent Application entitled:

**Apparatus and Method for Local Oscillator Calibration in Mixer Circuits**

and naming as inventors:

Donald G. McMullin  
Ramon A. Gomez  
Lawrence M. Burns  
Myles Wakayama

Commissioner for Patents  
August 28, 2003  
Page 2

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
  - b. An original Declaration executed by Donald G. McMullin, Ramon A. Gomez and Myles Wakayama;
  - c. An original Declaration executed by Lawrence M. Burns;
  - d. A specification containing:
    - i. 13 pages of description prior to the claims;
    - ii. 7 pages of claims (36 claims);
    - iii. a one (1) page abstract; and
  - e. 8 sheets of drawings: (Figures 1A, 1B, 1C, 2, 3, 4, 5 and 6);
4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
  5. Recordation Form Cover Sheet;
  6. An original Assignment to Broadcom Corporation, executed by Donald G. McMullin, Ramon A. Gomez and Myles Wakayama, recordation of which is hereby respectfully requested;
  7. An original Assignment to Broadcom Corporation, executed by Lawrence M. Burns, recordation of which is hereby respectfully requested;
  8. Two (2) return postcards; and
  9. PTO-2038 Credit Card Payment Form for \$ 1,162.00 to cover:  
\$ 750.00 Filing fee for patent application;  
\$ 40.00 Assignment recordation fee(s); and  
\$ 372.00 Fee for excess claims.

Commissioner for Patents  
August 28, 2003  
Page 3

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey T. Helvey  
Attorney for Applicants  
Registration No. 44,757

JTH/agj  
::ODMA\MHODMA\SKGF\_DC1\171722;1  
SKGF Rev. 2/12/02 dcw; 9/5/02 mac; 4/29/03 svb

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Confirmation No. (to be assigned)
Donald G. McMullin <i>et al.</i>	Art Unit: (to be assigned)
Appl. No. (to be assigned)	Examiner: (to be assigned)
Filed: Herewith	Atty. Docket: 1875.4300000
For: <b>Apparatus and Method for Local Oscillator Calibration in Mixer Circuits</b>	

**Authorization To Treat A Reply As Incorporating An Extension Of  
Time Under 37 C.F.R. § 1.136(a)(3)**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

  
Jeffrey T. Helvey  
Attorney for Applicants  
Registration No. 44,757

Date: 8/28/03  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600  
JTH/agj  
::ODMA\MHODMA\SKGF\_DC1;171775;1

SKGF 1/25/02 mac; 4/18/03 svb